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World Forum for Harmonization of Vehicle Regulations

Working Party on Automated/Autonomous and Connected Vehicles*

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Item 14 (a) of the provisional agenda
Remaining activities from the former Working Party on Brake and Running Gear (handover period): Tyres

Proposal for a Supplement to UN Regulation No. 117 (Tyres, rolling resistance, rolling noise and wet grip)

Submitted by the experts from the European Tyre and Rim Technical Organisation**

The text reproduced below was prepared by the experts from the European Tyre and Rim Technical Organisation (ETRTO) to amend UN Regulation No. 117. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

I. Proposal

Paragraph 2.18., amend to read:

* Formerly: **Working Party on Brakes and Running Gear (GRRF)**.

** In accordance with ECE/TRANS/274, para 52, with ECE/TRANS/WP.29/1139, para. 33 and with the programme of work of the Inland Transport Committee for 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

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"2.18. "*Standard Reference Test Tyre (SRTT)*" means a tyre that is produced, controlled and stored in accordance with the American Society for Testing and Materials (ASTM) standards

(a) ~~E1136-93 (2003)~~ **E1136 – 17** for the size P195/75R14

(b) ~~F2872 (2011)~~ **F2872 – 16** for the size 225/75 R 16 C

(c) ~~F2871 (2011)~~ **F2871 – 16** for the size 245/70R19.5

(d) ~~F2870 (2011)~~ **F2870 – 16** for the size 315/70R22.5."

Paragraph 6.4.1.1., amend the table to read:

"

Class of tyre	*Snow grip index (brake on snow method)* [a]		*Snow grip index (spin traction method)* [b]	*Snow grip index (acceleration method)* [c]
	Ref. = ~~C1~~ SRTT 14	*Ref. = ~~C2~~ SRTT 16C*	*Ref. = ~~C1~~ SRTT 14*	*Ref. = ~~C3N~~ SRTT 19.5* *Ref. = ~~C3W~~ SRTT 22.5*
C1	1.07	No	1.10	No
C2	No	1.02	1.10	No
C3	No	No	No	1.25

"

Annex 5, Paragraph 2.12., amend to read:

"2.12. "*SRTT14*" means the ASTM ~~E 1136-93 (Reapproved 2003)~~**E1136 – 17**, Standard Specification for a Radial Standard Reference Test Tire P195/75R14."

Annex 5, Paragraph 2.13., amend to read:

"2.13. "*SRTT16*" means the ASTM ~~F 2493-08~~**F2493 - 18**, Standard Specification for a Radial Standard Reference Test Tire P225/60R16."

Annex 6, Table 1, amend to read:

"Table 1
Test Speeds (in km/h)

Tyre Class	*C1*	*C2 and C3*	*C3*	
Load index	All	LI ≤ 121	LI > 121	
Speed symbol	All	All	J (100 km/h) and lower ~~or tyres not marked with speed symbol~~	K (110 km/h) and higher
Speed	80	80	60	80

"

Annex 6, Table 2, amend to read:

"Table 2
Test loads and inflation pressures

Tyre Class	*C1*[~~a~~]		*C2, C3*
	Standard load	*Reinforced or extra load*	
Load - % of maximum load capacity	80	80	85[~~ba~~] (% of single load)
Inflation pressure kPa	210	250	**Test Inflation pressure marked on sidewall as required by UN Regulation No. 54.** ~~Corresponding to maximum load capacity for single application~~[~~c~~]

Note: The inflation pressure shall be capped with the accuracy specified in paragraph 4. of Appendix 1 to this annex.

[~~a~~] ~~For those passenger car tyres belonging to categories which are not shown in ISO 4000-1:2010, the inflation pressure shall be the inflation pressure recommended by the tyre manufacturer, corresponding to the maximum tyre load capacity, reduced by 30 kPa.~~

[~~ba~~] ~~As a percentage of single load, or~~ 85 per cent of ~~maximum~~ load capacity **in single operation as indicated by the load capacity index** ~~for single application specified in applicable tyre standards manuals if not marked on tyre~~.

[~~c~~] ~~Inflation pressure marked on sidewall, or if not marked on sidewall, as specified in applicable tyre standards manuals corresponding to maximum load capacity for single application.~~

Annex 7,

Paragraph 4.1., shall be deleted.

Paragraphs 4.2. to 4.10. (former), shall be renumbered as *paragraphs 4.1. to 4.9.*

Paragraph 4.7. (former), amend to read:

"4.~~7~~.6. Acceleration on snow test procedure for snow grip index of Classes C3~~N and C3W~~"

"

II. Justification

1. The amendments to the Standard Reference Test Tyre (SRTT) denominations are needed to align what was reported in this UN Regulation with the latest approved versions of such standard Specifications because it is practically impossible to procure an earlier version (because it is not produced anymore) and keeping the year reference ensures that UN keeps control on the version/performances.

2. The amendments to paragraph 6.4.1.1. and Annex 7 are proposed to remove the discrimination between the two Class C3 tyres that may create some problems of fitment with specific vehicles, given the fact that in any case coefficients and performances are equivalent for the purpose of this Regulation.

3. The amendments to Annex 6 are proposed to make the text clearer and because there are no tyres in the scope of this UN Regulation "not marked with speed symbol".